





Windows
Server
2016




Certified



Features:

-  **High Performance** – Enterprise hardware RAID capability provides maximum throughput and performance
-  **High Density** – Equipped with twelve 3.5" hot-swappable drives with single server nodes in an ultra-dense 2U chassis.
-  **High Capacity** – Provides 120TB of raw capacity with 12 of 3.5" 10TB 12Gb SAS enterprise-level storage disks in a single 2U enclosure.
-  **Reduces Costs** – Built to provide low dollar-per-TB costs, space savings and satisfy high capacity demands of today's enterprise and hyper scale data centers.

For extremely large data sets makes ReFS a good choice for backup repositories:

-  **Resiliency** – Can detect data corruption and fix them while remaining online
-  **Performance** – Supports dynamic and diverse workloads with capabilities such as real-time optimization, block cloning and sparse VDL
-  **Scalability** – Supports extremely large data sets without negatively impacting performance

DataON Data Center Storage (DCS) Backup Appliances for Windows Server 2016

The DataON Data Center Storage (DCS) backup platform provides deployment versatility and scalability with the flexibility of software-defined storage and/or RAID-based storage profiles.

As part of a Windows-based storage solution, the DCS backup appliances help to reduce complexity and cost from deploying a traditional SAN backup. Using a virtualized environment provides greater flexibility and scalability as your backup storage needs grow.

Tailored to withstand storage capacity demands in a hyper-scale data center, the DCS family provides exceptionally high storage density while delivering outstanding low dollar-per-GB costs for cold, warm and even hot storage workloads. It also leverages high-efficiency power to maximize performance-per-watt savings to reduce TCO.

DataON DCS-3212 Backup Appliances

The DCS-3212 utilizes dual Intel® Xeon® E5-2600v3 processors with up to 512GB of memory—capable of delivering up to 120TB of storage in single 2U system. It is also equipped with twelve hot-swappable screw-less 3.5" drives in an ultra-dense 2U chassis. Support for both enterprise hardware RAID and SMB 3.0 over RDMA on a 10/40Gb network provides maximum throughput and performance.

The DCS-3212 is built and certified by Microsoft to seamlessly deploy with Microsoft Server 2016:

- **High Capacity** – Equipped with over 120TB of raw capacity in a single server for storage intensive applications or enterprise level storage.
- **High Density** – Includes twelve 3.5" SSD/HDD drives in a single 2U storage server.
- **Enterprise Hardware RAID Ready** – Tested and validated with enterprise hardware RAID for maximum throughput and performance.
- **SMB 3.0 over RDMA** – Provides low latency storage and networking, and increased CPU efficiency within a 10/40GbE network.
- **Built for Microsoft enterprise backup** – Ideal for tier 1 and nearline data backups.

Data Backups in Windows Server 2016

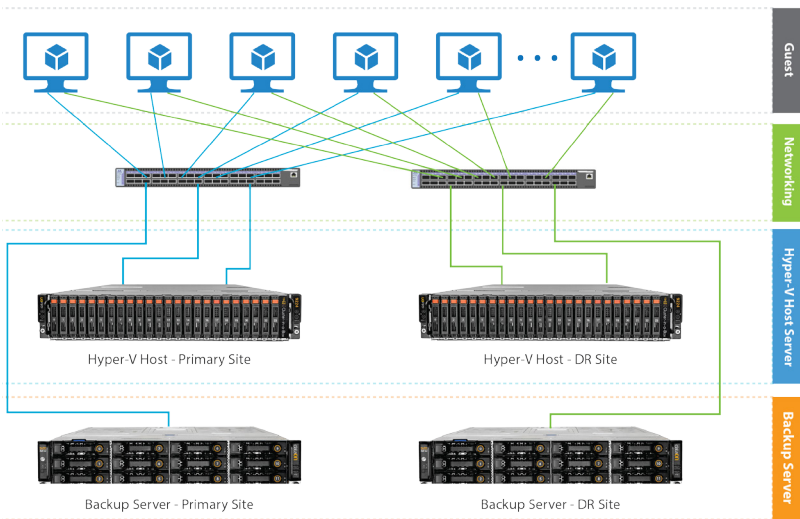
The Resilient File System (ReFS) is Microsoft's newest file system. First introduced in Windows Server 2012, it maximizes data availability, despite errors that would historically cause data loss or downtime. Data integrity ensures that business-critical data is protected from errors and available when needed.

The DCS storage family fully supports Storage Replica, a new disaster recovery feature in Windows Server 2016. It supports both synchronous and asynchronous data replication across any distance, and supports HDDs, SSDs and NVMe technology. It also works at a block level so it works with any type of file system, including ReFS.

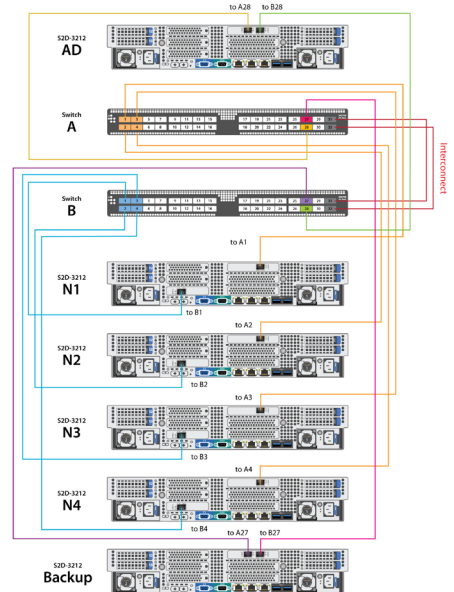
DCS storage also supports Veeam® Backup & Replication™, which provides fast, flexible, and reliable recovery of virtualized applications and data in a Hyper-V environment. Veeam Backup delivers fast, reliable backup and restoration of files, entire VMs and application items, without the use of agents.

Form Factor	2U Rackmount Server (29.3" depth)
Drive Bays	12x 3.5"/2.5" Hot-plug HDD or SSD front load
Storage I/O	12Gb SAS 3.0 up to 12Gbps (end-to-end)
Power Supply	Hot-swap & redundant (1+1) 750W 110V-240V (auto-ranging)
Cooling	(4) Dual-rotor fans, (7+1) redundant
Server Nodes	Single server node, dual-socket & cluster ready
Processors	(2) Intel® Xeon® Processor E5-2600v4 family
Memory	(24) DIMM slots, 2133/2400 MHz DDR4 up to 512Gb per node
Boot Drive	(2) 7mm 128GB SATA III SSD mirrored, hot-plug
Expansion Slots	1x PCIe 3.0 x 16, 3x PCIe 3.0 x 8, 1x PCIe 3.0 x 8 for SAS HBA
Storage Controllers	(1) Avago® LSI 9300-8i 8-port internal 12Gb SAS HBA
Onboard Networking	(2) Intel® 82559 GbE RJ-45
Management Port	(1) GbE RJ-45 IPMI management port
System Management	IPMI v2.0 compliant, SNMP support
TPM	TPM 2.0/1.2

Veeam Backup



Microsoft DPM Backup



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About DataON

DataON is the industry-leading provider of hyper-converged cluster appliances (HCCA) and storage systems optimized for Microsoft Windows Server environments. Our solutions are built with the single purpose of rapidly and seamlessly deploying Microsoft applications, virtualization, data protection, and hybrid cloud services. Our company is exclusively focused on customers who have made the "Microsoft choice" and we provide the ultimate platform for the Microsoft software-defined data center (SDDC). DataON is a division of Area Electronics Systems, Inc.

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